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AUG 04 2006

Amendments to the Claims:

Rule
1.126
This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A cutting unit, comprising:

a pair of cylinders disposed opposite one another with a gap formed there-between for receiving a ribbon on a travel path, said pair of cylinders including a first cutting cylinder having a periphery with a cutting knife disposed helically about said periphery and a second cylinder;

one drive rotating said first cutting cylinder at a speed proportional to the speed of the ribbon for cutting the ribbon and providing a signature cut from the ribbon with a smooth, straight edge;

a subframe having a pivot point, said subframe being pivotable about said pivot point, said subframe supporting said cylinders, and said subframe controlling a position of said cylinders in regard to the ribbon and therefore controlling a cutting length of the ribbon;

a further drive connected to said subframe for pivoting said subframe about said pivot point;

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a control unit connected to and controlling said further drive
and to change the angular orientation of said pair of
cylinders relative to the ribbon;

said control unit additionally connected to and controlling
said one drive for controlling a rotational speed of said
first cutting cylinder pair of cylinders such that a component
of travel of a point of contact between said pair of cylinders
in a direction of travel of the ribbon matches a speed of the
ribbon for cutting the ribbon to produce a signature cut from
the ribbon having a smooth, straight edge extending
substantially perpendicular to the traveling direction of the
ribbon on said travel path; and

said control unit changing the rotational speed of said pair
of cylinders contemporaneously with changing the angular
orientation of said pair of cylinders relative to the ribbon
to adjust the cutting lengths of the ribbons.

~~for a given press speed, said control unit causing said~~
~~cylinders to be rotated faster and decreasing an angle of said~~
~~cylinders relative to the ribbon, in order to increase the~~
~~cutting lengths of the ribbon.~~

Claims 2 - 4. (canceled)

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Claim 5 (previously presented): The cutting unit according to claim 1, wherein said one drive is a first drive, and including a second drive rotating and mounting said second cylinder, said first drive and said second drive are supported by said subframe.

Claim 6. (canceled)

Claim 7 (previously presented): The cutting unit according to claim 1, wherein said one drive is a first drive, a second drive rotates and mounts said second cylinder, and said first drive and said second drive are motors.

Claim 8 (previously presented): The cutting unit according to claim 1, wherein said one drive is a first drive, a second drive rotates and mounts said second cylinder, and said first drive and said second drive are gears to be driven by motors.

Claim 9 (currently amended): The cutting unit according to claim ~~[[6]]~~1, wherein said cutting unit further includes a sensor selected from the group consisting of cameras, optical scanners, speed sensors, and position sensors, and said control unit is a microprocessor based control unit.

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Claim 10 (currently amended): A folder, comprising:

a frame;

a subframe pivotably mounted in said frame about a pivot point;

one drive housed in said subframe;

a pair of cylinders supported by said subframe and disposed opposite one another with a gap formed there-between for receiving a ribbon on a travel path, said pair of cylinders including a first cutting cylinder having a periphery with a cutting knife disposed helically about said periphery and a second cylinder, said first cutting cylinder driven by said one drive at a speed proportional to the speed of the ribbon for cleanly cutting the ribbon and providing a signature cut from the ribbon with a smooth, straight edge;

said subframe controlling a position of said cylinders in regard to the ribbon and therefore controlling a cutting length of the ribbon;

a further drive connected to said subframe for pivoting said subframe about said pivot point;

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a control unit connected to and controlling said further drive
to change the angular orientation of said pair of cylinders
relative to the ribbon;

~~and said control unit additionally connected to and~~
~~controlling said one drive for controlling a rotational speed~~
~~of said first cutting cylinder pair of cylinders such that, a~~
~~component of travel of a point of contact between said pair of~~
~~cylinders in a direction of travel of the ribbon matches a~~
~~speed of the ribbon for cutting the ribbon to produce a~~
~~signature cut from the ribbon having a smooth, straight edge~~
~~extending substantially perpendicular to the traveling~~
~~direction of the ribbon on said travel path; and~~

said control unit changing the rotational speed of said pair
of cylinders contemporaneously with changing the angular
orientation of said pair of cylinders relative to the ribbon
to adjust the cutting lengths of the ribbons.

~~for a given press speed, said control unit causing said~~
~~cylinders to be rotated faster and decreasing an angle of said~~
~~cylinders relative to the ribbon, in order to increase the~~
~~cutting lengths of the ribbon.~~

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Claim 11 (previously presented): The folder according to claim 10, wherein said one drive is a first drive and including a second drive rotating and mounting said second cylinder, said first drive and said second drive rotating said cylinders such that a component of travel of a point of contact between said cylinders in a direction of travel of the ribbon matches a speed of the ribbon for cutting the ribbon in a straight line.

Claims 12 - 21 (canceled)

Claim 22 (previously presented): The cutting unit according to claim 1, wherein at least one sensor provides control signals to said control unit to maintain an acceptable cut of the ribbon by adjustment of the rotational speed of said cylinder drives, or by adjustment of said further drive pivoting said subframe.

Claim 23 (previously presented): The cutting unit according to claim 1, wherein at least one sensor detects an unacceptable cut of the ribbon, and said control unit adjusts the rotational speed of the cylinders by adjusting the drives.

Claim 24 (previously presented): The cutting unit according to claim 1, wherein at least one sensor detects an

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unacceptable cut of the ribbon, and said control unit adjusts the rotational speed of the cylinders by controlling the position of said cutting cylinders.

Claim 25 (new): A method for cutting a ribbon, comprising:

providing a cutting unit including,

a pair of cylinders disposed opposite one another with a gap formed there-between for receiving a ribbon on a travel path, the pair of cylinders including a first cutting cylinder having a periphery with a cutting knife disposed helically about the periphery and a second cylinder,

one drive rotating the first cutting cylinder at a speed proportional to the speed of the ribbon for cutting the ribbon and providing a signature cut from the ribbon with a smooth, straight edge,

a subframe having a pivot point, the subframe being pivotable about the pivot point, the subframe supporting the cylinders, and the subframe controlling a position of the cylinders in regard to the ribbon and therefore controlling a cutting length of the ribbon, and

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a further drive connected to the subframe for pivoting
the subframe about the pivot point;

changing the length of the ribbon by controlling the further
drive to change the angular orientation of the pair of
cylinders relative to the ribbon; and

contemporaneously with the step of controlling the further
drive, controlling the one drive to change a rotational speed
of the pair of cylinders such that a component of travel of a
point of contact between the pair of cylinders in a direction
of travel of the ribbon matches a speed of the ribbon for
cutting the ribbon such that a signature cut from the ribbon
has a smooth, straight edge extending substantially
perpendicular to the traveling direction of the ribbon on said
travel path.

Claim ²⁶~~27~~ (new): The folder of claim 10, wherein, in order to
increase the cutting lengths of the ribbon, said control unit
causes said cylinders to be rotated faster when an angle of
said cylinders relative to the ribbon is decreased.

Claim ²⁷~~28~~ (new): The method of claim 25, wherein, in order to
increase the cutting lengths of the ribbon, the pair of

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cylinders are rotated faster when an angle of the cylinders
relative to the ribbon is decreased.